

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A method for storing a data stream comprising intra-coded pictures and inter-coded pictures on a storage medium ~~(300)~~ comprising at least one intra-coded allocation unit ~~(302)~~ and at least one inter-coded allocation unit ~~(304)~~, the method comprising ~~the steps~~acts of:

[[a)] receiving the data stream;

[[b)] storing multiple intra-coded pictures in the intra-coded allocation unit on the storage medium, together and separate from the inter-coded pictures;

[[c)] storing multiple inter-coded pictures in the inter-coded allocation unit on the storage medium, together and separate from the intra-coded pictures.

2. (Currently amended) ~~Method~~ The method according to claim 1, wherein the data stream comprises further data other than coded pictures, the method comprising an act of storing and the further

data ~~I stored~~ in the intra-coded allocation unit.

3. (Currently amended) ~~Method~~ The method according to claim 1, wherein the inter-coded allocation unit is preceded by the intra-coded allocation unit and the separated inter-coded pictures stored in the inter-coded allocation unit are associated with the separated intra-coded pictures stored in the preceding intra coded allocation unit.

4. (Currently amended) ~~Method~~ The method according to claim 1, further comprising ~~the steps~~ acts of:

- [[a)]] receiving a trick play request for the stored data; and
- [[b)]] reading the data in the intra-coded allocation units to create the requested trick play stream of recorded data.

5. (Currently amended) The method according to claim 1, wherein data in the intra-coded allocation units are coded with a first coding algorithm and the data in the inter-coded allocation units are coded with a second coding algorithm that is a different coding algorithm than the first coding algorithm.

6. (Currently amended) Apparatus for storing a data stream comprising intra-coded pictures and inter-coded pictures on a storage medium comprising ~~(300)~~ at least one intra-coded allocation unit ~~(302)~~ and at least one inter-coded allocation unit ~~(304)~~, the apparatus further comprising:

[[a]] a receiver (31) for receiving the data stream;

[[b]] means (6) for storing multiple intra-coded pictures in the intra-coded allocation unit on the storage medium, together and separate from the inter-coded pictures;

[[c]] means (6) storing multiple inter-coded pictures in the inter-coded allocation unit on the storage medium, together and separate from the intra-coded pictures.

7. (Currently amended) A storage medium (300) comprising:

[[a]] at least one intra-coded allocation unit ~~(302)~~ for storing multiple intra-coded pictures together and separate from inter-coded pictures; and

[[b]] at least one inter-coded allocation unit ~~(304)~~ for storing multiple inter-coded pictures together and separate from intra-coded pictures.

8. (New) The method according to claim 1, further comprising acts of:

storing multiple intra-coded pictures in an intra-coded scheduler buffer,

storing multiple inter-coded pictures in inter-coded scheduler buffer;

determining if one of the scheduler buffers contains enough data to fill an entire allocation unit, and if so, writing the multiple intra-coded pictures in the intra-coded scheduler buffer to the intra-coded allocation unit on the storage medium and thereafter, writing the multiple inter-coded pictures in the inter-coded scheduler buffer to the inter-coded allocation unit on the storage medium.

9. (New) The method according to claim 1, wherein the inter-coded pictures in the inter-coded allocation unit include inter-coded P-frames and inter-coded B-frames, wherein the act of storing multiple inter-coded pictures in the inter-coded allocation unit comprises acts of:

storing multiple inter-coded P-frames in the inter-coded allocation unit on the storage medium, together and separate from

the inter-coded B-frames; and

storing multiple inter-coded B-frames in the inter-coded allocation unit on the storage medium, together and separate from the inter-coded P-frames.